

Serial No.: 09/778,661
Art Unit: 2872

AMENDMENTS TO THE CLAIMS

In the Claims

The following is a marked-up version of the claims with the language that is underlined ("___") being added and the language that contains strikethrough ("~~---~~") being deleted:

Claims

1 - 41. (Canceled)

42. (Currently amended) An optical cavity comprising:

a first reflector comprising:

a first layer having a ~~non-concave~~ planar first surface and a planar second surface, wherein the first layer has an index of refraction that varies as a function of radial distance from an axial center of the first layer; and

a first reflecting stack having planar layers, wherein a planar first surface of the first reflecting stack is juxtaposed with the planar second surface of the first layer; and

a second reflector comprising a second reflecting stack of planar layers, and wherein the first and second reflectors are configured to provide at least one optical path from the second reflector to the first reflector such that light travelling in this optical path traverses the ~~non-concave~~ planar first surface of the first layer before undergoing reflection back towards the second reflector.

43- 47. (Canceled)

48. (Currently amended) The optical cavity of claim 42, wherein adjacent layers of the first reflecting stack have different indices of refraction.

49. (Currently amended) The optical cavity of claim 48, wherein each of the layers of the first reflecting stack has a quarter-wave optical thickness.

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50. (Currently amended) An optical cavity comprising:
- a first reflector having a planar first surface and a ~~non-concave~~ planar second surface, wherein the planar second surface is a surface of a first layer having an index of refraction that varies as a function of radial distance from an axial center of the first layer;
 - a second reflector having a planar first surface and a planar second surface; and
 - a non-reflecting active region between the non-concave second surface of the first reflector and the planar first surface of the second reflector.

51 - 54. (Canceled)

55. (Previously presented) The optical cavity of claim 50, wherein the non-reflecting active region comprises a layer of semiconductor material.

56. (Previously presented) The optical cavity of claim 50, wherein the non-reflecting active region comprises a quantum well.

57 - 61. (Canceled)